INDEX

A

	Absorption Cycle, Air-Cooled, by R. H. MERRICK and R. A. ENGLISH Accountant's Report	339
	Activated Charcoal to Decrease Odor and Odor Transfer in Domestic Refrig- erators, Use of, by AARON L. BRODY, JESS W. THOMAS and LOIS LAFEBER	217
	Air Conditioner, Gas-Fired Open Cycle, by B. E. EAKIN and R. T. ELLINGTON	319
	Air-Cooled Absorption Cycle, by R. H. MERRICK and R.A. ENGLISH	339
	Discussion	346
	Alaska Summer Weather Data, by ROBERT BURGGRAAF	240
	Discussion ALBRIGHT, L. F., T. C. DOODY, P. C. BUCLEZ and C. R. PLUCHE, Solubility of Refrigerants 11, 21 and 22 in Organic Solvents Containing an Oxygen	423
	Analysis of the Necessity to Insulate Floors of Cold Storage Rooms at 35 F,	920
		60
	by J. D. Hovanesian, H. F. Prost and C. W. Hall.	69 78
	Discussion Apple Cooling Rates, Packed in Different Bushel Containers and Stacked at	
	Different Spacings in Cold Storage, D. V. FISHER	414
	ASHRAE By-laws	39
	ASHRAE Membership	60
	ASHRAE Semiannual Meeting, 1960 (Dallas, Texas)	61
	ASHRAE Sixty-seventh Annual Meeting, 1960 (Vancouver, B. C.)	309
	Kerka	129
	Discussion	152
	If any heart point senters B presenting point of stops to be	
	BAKER, J. T., C. M. HUMPHREYS and B. H. JENNINGS, Saturated Steam Flow in	
	Copper Tubing	167
	BAKER, MERL and J. M. ELLIOTT, Heat Loss from a Heated Basement	400
	Basement, Heat Loss from a Heated, by J. M. ELLIOTT and MERL BAKER BEACHAM, E. A., W. O. KRAUSE and A. B. Guise, Time Factors in the Removal	400
	of Moisture from Refrigerating Systems with Desiccant Type Driers Brody, Aaron L., Jess W. Thomas and Lois Lafeber, Use of Activated Char-	465
	coal to Decrease Odor and Odor Transfer in Domestic Refrigerators	217
1	Brown, W. G. and C. Wachmann, Draft Performance of Chimneys	154
,	Refrigerants 11, 21 and 22 in Organic Solvents Containing an Oxygen Atom	423
1	BURGGRAAF, ROBERT, Alaska Summer Weather Data	240
	By-laws	39
	C	
	Chimneys, Draft Performance of, by W. G. Brown and C. Wachmann Cold Storage Rooms, An Analysis of the Necessity to Insulate Floors of at 35 F,	154
	by J. D. Hovanesian, H. F. Pfort and C. W. Hall. Comfort Range, Sensation Responses to Temperature and Humidity under Still Air Conditions in, Environmental Study II, by Walter Koch, B. H.	69
	JENNINGS and C. M. HUMPHREYS	264

INDEX

A

	Absorption Cycle, Air-Cooled, by R. H. MERRICK and R. A. ENGLISH Accountant's Report	339
	Activated Charcoal to Decrease Odor and Odor Transfer in Domestic Refrig- erators, Use of, by AARON L. BRODY, JESS W. THOMAS and LOIS LAFEBER	217
	Air Conditioner, Gas-Fired Open Cycle, by B. E. EAKIN and R. T. ELLINGTON	319
	Air-Cooled Absorption Cycle, by R. H. MERRICK and R.A. ENGLISH	339
	Discussion	346
	Alaska Summer Weather Data, by ROBERT BURGGRAAF	240
	Discussion ALBRIGHT, L. F., T. C. DOODY, P. C. BUCLEZ and C. R. PLUCHE, Solubility of Refrigerants 11, 21 and 22 in Organic Solvents Containing an Oxygen	423
	Analysis of the Necessity to Insulate Floors of Cold Storage Rooms at 35 F,	920
		60
	by J. D. Hovanesian, H. F. Prost and C. W. Hall.	69 78
	Discussion Apple Cooling Rates, Packed in Different Bushel Containers and Stacked at	
	Different Spacings in Cold Storage, D. V. FISHER	414
	ASHRAE By-laws	39
	ASHRAE Membership	60
	ASHRAE Semiannual Meeting, 1960 (Dallas, Texas)	61
	ASHRAE Sixty-seventh Annual Meeting, 1960 (Vancouver, B. C.)	309
	Kerka	129
	Discussion	152
	If any heart point senters B presenting point of stops to be	
	BAKER, J. T., C. M. HUMPHREYS and B. H. JENNINGS, Saturated Steam Flow in	
	Copper Tubing	167
	BAKER, MERL and J. M. ELLIOTT, Heat Loss from a Heated Basement	400
	Basement, Heat Loss from a Heated, by J. M. ELLIOTT and MERL BAKER BEACHAM, E. A., W. O. KRAUSE and A. B. Guise, Time Factors in the Removal	400
	of Moisture from Refrigerating Systems with Desiccant Type Driers Brody, Aaron L., Jess W. Thomas and Lois Lafeber, Use of Activated Char-	465
	coal to Decrease Odor and Odor Transfer in Domestic Refrigerators	217
1	Brown, W. G. and C. Wachmann, Draft Performance of Chimneys	154
,	Refrigerants 11, 21 and 22 in Organic Solvents Containing an Oxygen Atom	423
1	BURGGRAAF, ROBERT, Alaska Summer Weather Data	240
	By-laws	39
	C	
	Chimneys, Draft Performance of, by W. G. Brown and C. Wachmann Cold Storage Rooms, An Analysis of the Necessity to Insulate Floors of at 35 F,	154
	by J. D. Hovanesian, H. F. Pfort and C. W. Hall. Comfort Range, Sensation Responses to Temperature and Humidity under Still Air Conditions in, Environmental Study II, by Walter Koch, B. H.	69
	JENNINGS and C. M. HUMPHREYS	264

Comparative Study of the Manufacturing Costs of Thermoelectric and Mechanical Refrigerating Systems, by D. W. Scofield, P. F. Taylor and L. A. Staebler.	494
	507
Discussion Compressor Characteristics, Effect of, on Motor Performance, by Erik H. Jensen	194
Cooling Rates of Apples Packed in Different Bushel Containers and Stacked at	
Different Spacings in Cold Storage, by D. V. FISHER	414
Discussion Copper Tubing, Saturated Steam Flow in, C. M. Humphreys, J. T. Baker and	422
	100
B. H. JENNINGS	167
A. M. W. Ye. Divings and H. A. Hassenson, Time Pagests in the Removal Middleng lines Bullegerities Syrugal with Disserted Type Blants 455	
Determination of Moisture in Fluorocarbons, by Joseph D. Morton and	
LAURA K. FUCHS	434
Discussion	444
Digital Computer, Muffler Analysis, by D. F. MILLER and B. W. HATTEN DOELLING, NORMAN, Noise Reduction Characteristics of Package Attenuators for	202
Air-Conditioning Systems. Doody, T. C., L. F. Albright, P. C. Buclez and C. R. Pluche, Solubility of	114
Refrigerants 11, 21 and 22 in Organic Solvents Containing an Oxygen Atom	423
DOWNING, G. V., Jr., Production Control Testing of Thermoelectric Materials	477
Draft Performance of Chimneys, by W. G. Brown and C. Wachmann	154
Driers, Desiccant-Type, Time Factors in the Removal of Moisture from Refrig- erating Systems, by W. O. Krause, A. B. Guise and E. A. Beacham	465
Dual Solution System-A Different Approach to Some of the Problems of Air	000
Conditioning, by F. H. Hibberd. Discussion	348 358
process to the discovering with the New York of the New York New York	300
Through those of Cold Sports Throng and the Throngsont Throng Throng	
EAKIN, B. E. and R. T. ELLINGTON, Gas-Fired Open Cycle Air Conditioner Effect of Compressor Characteristics on Motor Performance, by ERIK H. JENSEN	319 194 201
Discussion Electronic Computer Aids Calculation of Reaction Forces in a Scotch Yoke, by	
V. G. Foris and B. W. Hatten	391
ELLINGTON, R. T. and B. E. EAKIN, Gas-Fired Open Cycle Air Conditioner	319
ELLIOTT, J. M. and MERL BAKER, Heat Loss from a Heated Basement	400
Environmental Study II-Sensation Responses to Temperature and Humidity	339
under Still Air Conditions in the Comfort Range, by WALTER KOCH,	
Discussion	264 282
large Plans of Disk Spears Louis at M. F. Araban of the Standard St. 1947 D. Kortannass, M. F. Prant and C. W. Hart.	
the beautiful following the state of the sta	
	414
Fluorocarbons, Determination of Moisture in, by Joseph D. MORTON and	
LAURA K. FUCHS. FORIS, V. G. and B. W. HATTEN, Electronic Computer Aids Calculation of Re-	434
FORIS, V. G. and B. W. HATTEN, Electronic Computer Aids Calculation of Re-	ousi-
action Forces in a Scotch Yoke	391
Troot I dimension on Item Britains Comp, D I was a second	91
Discussion	102

Frost Formation upon a Thin Aluminum Tank Containing Liquid Oxygen, by J. L. LOPER.	104
Discussion Fuchs, Laura K. and Joseph D. Morton, Determination of Moisture in Fluoro-	113
carbons	434
Second Statement for CALA Statement of CALA Statement of CALACAMA	
Especial Direct	
Gas-Fired Open Cycle Air Conditioner, by B. E. EAKIN and R. T. ELLINGTON Discussion	319
GUISE, A. B., W. O. KRAUSE and E. A. BEACHAM, Time Factors in the Removal of Moisture from Refrigerating Systems with Desiccant Type Driers	
desired of bearing to Various Hart to State to Marrie and an	
HALL, C. W., J. D. HOVANESIAN and H. F. PFOST, Analysis of the Necessity to	
Insulate Floors of Cold Storage Rooms at 35 F	69
HANDEGORD, G. O. and C. E. Till, Proposed Humidity Standard	288
HATTEN, B. W. and D. F. MILLER, Muffler Analysis by Digital Computer	202
action Forces in a Scotch Yoke	391
Heat Exchangers, A Method of Comparing, by Donald G. Rich	80
Heat Loss from a Heated Basement, by J. M. Elliott and Merl Baker Discussion	400
HIBBERD, F. H., Dual Solution System-A Different Approach to Some of the	348
Problems of Air Conditioning High-Temperature Water Systems, Proposed Pipe Friction Chart for, by T. C.)
MIN and P. J. POTTER. HOVANESIAN, J. D., H. F. PFOST and C. W. HALL, Analysis of the Necessity to	374
Insulate Floors of Cold Storage Rooms at 35 F. Huck, William, Simplified Engineering Approach to Thermoelectric Heat	69
Pumping	485
Humidity Standard, Proposed, by C. E. TILL and G. O. HANDEGORD	288
Copper Tubing	167
HUMPHREYS, C. M., WALTER KOCH and B. H. JENNINGS, Environmental Study II—Sensation Responses to Temperature and Humidity under Still Air	
Conditions in the Comfort Range	264
HUTCHINSON, A. V. In Memoriam	512
The Colonial and West Council Control Service and Residence of the Line	
The Party of the State of the S	E00
In Memoriam. Insulating Floors of Cold Storage Rooms at 35 F, Analysis of the Necessity to,	509
by J. D. Hovanesian, H. F. Prost and C. W. Hall.	69
to, D. Y., Coulog Rose of Apple Defined by Different Builds Colleges.	
JENNINGS, B. H., C. M. HUMPHREYS and J. T. BAKER, Saturated Steam Flow in	
Copper Tubing	167
JENNINGS, B. H., WALTER KOCH and C. M. HUMPHREYS, Environmental Study II—Sensation Responses to Temperature and Humidity under Still Air	
Conditions in the Comfort Range JENSEN, ERIK H., Effect of Compressor Characteristics on Motor Performance	264 194

216

r

- Kerka, W. F., Attenuation and Generation of Sound in Elbows with Turning Vanes

 Kerka, W. F., Re-Evaluation of the Steam-Pipe Size Tables for the ASHRAE Guide

 Guide

 Koch, Walter, B. H. Jennings and C. M. Humphreys, Environmental Study II—Sensation Responses to Temperature and Humidity under Still Air

T

- LAPEBER, LOIS, AARON' L. BRODY and JESS W. THOMAS, Use of Activated Charcoal to Decrease Odor and Odor Transfer in Domestic Refrigerators. 217

 LEOPOLD, C. S., In Memoriam. 515

 LEVY, S. L., W. O. WALKER and S. ROSEN, Study of the Factors Influencing
- J. L. LOPER. 104

 LOPER, J. L., Frost Formation upon a Thin Aluminum Tank Containing Liquid
 Oxygen 104

M

- Mechanical and Thermoelectric Refrigerating Systems, A Comparative Study of the Manufacturing Costs of, by D. W. Scofield, P. F. Taylor and L. A. Staebler 494

 Merrick, R. H. and R. A. English, Air-Cooled Absorption Cycle 339
- MILLER, D. F. and B. W. HATTEN, Muffler Analysis by Digital Computer 202
 MIN, T. C. and P. J. POTTER, Proposed Pipe Friction Chart for High-Temperature Water Systems 374
- Moisture, Determination of in Fluorocarbons, by Joseph D. Morton and Laura K. Fuchs. 434
- Moisture, Time Factors in the Removal of from Refrigerating Systems with Desiccant Type Driers, by W. O. Krause, A. B. Guise and E. A. Веаснам 465 Моктон, Joseph D., and Laura K. Fuchs, Determination of Moisture in

Discussion

0.4

Noise Reduction Characteristics of Package Attenuators for Air-Conditioning
Systems, by Norman Doelling
Discussion
114

0

Officers and Board of Directors (June 1960—February 1961)	19
Ozisik, N. and L. F. Schutrum, Solar Heat Gain Factors for Windows with Drapes	228
Ozisik, N. and L. F. Schutraum, Solar Heat Gains through Slat-Type Between- Glass Shading Devices	359
Names 3, 21 Incomes and C 5t Howevers, Engineeral Science	
- Available Sequence to Temporation and Heriolity realer Still Act.	
Package Attenuators for Air Conditioning Systems, Noise Reduction Character-	
PFOST, H. F., J. D. HOVANESIAN and C. W. HALL, Analysis of the Necessity to Insulate Floors of Cold Storage Rooms at 35 F.	114
Pipe Friction Chart, Proposed, for High-Temperature Water Systems, by T. C. Min and P. J. POTTER.	374
PLUCHE, C. R., L. F. ALBRIGHT, T. C. DOODY and P. C. BUCLEZ, Solubility of Refrigerants 11, 21 and 22 in Organic Solvents Containing an Oxygen Atom POTTER, P. J. and T. C. MIN, Proposed Pipe Friction Chart for High-Tempera-	423
ture Water Systems	374
Production Control Testing of Thermoelectric Materials, by G. V. Downing, Jr.	477
Proposed Humidity Standard, by C. E. Till and G. O. HANDEGORD.	288
Discussion	305
Proposed Pipe Friction Chart for High-Temperature Water Systems, by T. C. MIN and P. J. POTTER.	374
Discussion	387
and the state of t	
Betterel Method of Determining Summar Worther Design Date by H. C. S.	
Rational Method of Determining Summer Weather Design Data, by H. C. S.	248
Discussion	261
W. F. KERKA	183
Refrigerant 22 and Refrigerating Oils, A Study of the Factors Influencing the Stability of Mixtures of, by W. O. Walker, S. Rosen and S. L. Levy Refrigerants 11, 21 and 22, Solubility of in Organic Solvents Containing an Oxygen Atom, by L. F. Albright, T. C. Doody, P. C. Buclez and C. R.	445
PLUCHE	423
Refrigeration Coils, Frost Formation on, by W. F. STOECKER	91
Report of the Research and Technical Committee	55 55
Research and Technical Committee, Report of	80
ROSEN, S., W. O. WALKER and S. L. LEVY, Study of the Factors Influencing the Stability of Mixtures of Refrigerant 22 and Refrigerating Oils	445
Roberto December of Parties Absorbed by the Contributed	
Saturated Steam Flow in Copper Tubing, by C. M. HUMPHREYS, J. T. BAKER	
and B. H. JENNINGS.	167
Discussion	182
SCHUTRUM, L. F. and N. Ozisik, Solar Heat Gain Factors for Windows with Drapes	228
SCHUTRUM, L. F. and N. OZISIK, Solar Heat Gains through Slat-Type Between- Glass Shading Devices	359

Scofield, D. W., P. F. Taylor and L. A. Staebler, Comparative Study of the Manufacturing Costs of Thermoelectric and Mechanical Refrigerating	494
Systems Scotch Yoke, Electronic Computer Aids Calculation of Reaction Forces in, by V. G. Foris and B. W. HATTEN	391
Sensation Responses to Temperature and Humidity under Still Air Conditions in the Comfort Range—Environmental Study II, by WALTER KOCH, B. H.	
JENNINGS and C. M. HUMPHREYS Shading Devices, Solar Heat Gains through Slat-Type Between-Glass, by	264
N. Ozisik and L. F. Schutrum. Simplified Engineering Approach to Thermoelectric Heat Pumping, by William Huck	359 485
Discussion Solar Heat Gain Factors for Windows with Drapes, by N. Ozisik and L. F.	493
Schutrum Discussion Solar Heat Gains through Slat-Type Between-Glass Shading Devices, by	228 239
N. Ozisik and L. F. Schutrum	359 372
Discussion Solubility of Refrigerants 11, 21 and 22 in Organic Solvents Containing an Oxygen Atom, by L. F. Albright, T. C. Doody, P. C. Buclez and	
C. R. PLUCHE. Discussion	423 432
Sound, Attenuation and Generation of in Elbows with Turning Vanes, by W. F. KERKA	129
Manufacturing Costs of Thermoelectric and Mechanical Refrigerating	494
Systems Steam-Pipe Size Tables for the ASHRAE GUIDE, Re-Evaluation of, by W. F. KERKA	183
Steam, Saturated, Flow in Copper Tubing, by C. M. Humphreys, J. T. Baker and B. H. Jennings. Stoecker, W. F., Frost Formation on Refrigeration Coils.	167 91
Study of the Factors Influencing the Stability of Mixtures of Refrigerant 22 and Refrigerating Oils, by W. O. WALKER, S. ROSEN and S. L. LEVY.	445
Discussion	463
T	
TAYLOR, P. F., D. W. Scofield and L. A. Staebler, Comparative Study of the Manufacturing Costs of Thermoelectric and Mechanical Refrigerating	494
Systems Thermoelectric and Mechanical Refrigerating Systems, a Comparative Study of the Manufacturing Costs of, by D. W. Scofield, P. F. Taylor and L. A.	
STAEBLER Thermoelectric Heat Pumping, a Simplified Engineering Approach to, by	494
WILLIAM HUCK	477
Thermoelectric Materials, Production Control Testing of, by G. V. Downing, Jr. Thom, H. C. S., Rational Method of Determining Summer Weather Design Data Thomas, Jess W., Aaron L. Brody and Lois Lafeber, Use of Activated Char-	248
coal to Decrease Odor and Odor Transfer in Domestic Refrigerators	217
Till, C. E. and G.O. Handecord, Proposed Humidity Standard	288
Desiccant Type Driers, by W. O. Krause, A. B. Guise and E. A. Beacham Discussion	465 476